second page while a first framebuffer maintains the pixel values corresponding to the first page.

Finally, at **806**, the process **800** initiates a page transition that tracks the touch input as the touch input moves across the touch-sensitive electronic paper display. For instance, the device **100** may issue instructions to update the electronic paper display that track the location of the user's touch input on the display.

FIG. **9** illustrates another example process **900** for performing an incremental transition in response to a request from a user to navigate from a first portion of a content item to a second portion. At **902**, the process **900** renders a first portion of a content item on the electronic paper display. At **904**, the process **900** receives a request to render a second, different portion of the content item on the electronic paper display. Again, the device **100** may receive this request via a touchscreen, a physical button or control, an audible command, or the like. Furthermore, the second portion may cover all or only a portion of the display. For instance, the second portion of the content item may comprise a page of an electronic book, or may simply comprise a pop-up menu, a virtual keyboard being rendered on the device, or any other piece of content. In some instances, the second portion may comprise content in two or more different regions on the display (e.g., the top and the bottom). In these instances, the two or more regions may be updated in an alternating manner.

Finally, at **906** and in response, the process **900** sequentially updates blocks of pixels of the electronic paper display until the electronic paper display renders each pixel value corresponding to the second portion of the content item. Collectively, the sequential updates may appear to a user to roll or otherwise move across the screen or a portion of the screen in an animated manner. This animation may comprise any of the transitions described above, or any other transition that involves sequentially updating blocks of text to render a new piece of content on the electronic paper display. Again, this new piece of content may cover the entire display or only a portion.

Conclusion

Although the subject matter has been described in language specific to structural features and/or methodological acts, it is to be understood that the subject matter defined in the appended claims is not necessarily limited to the specific features or acts described. Rather, the specific features and acts are disclosed as exemplary forms of implementing the claims.

What is claimed is:

1. An electronic book reader device comprising:
an electronic paper display configured to render content and comprising a plurality of pixels;
a display controller configured to update the content rendered on the electronic paper display;
a framebuffer from which the display controller updates the content on the electronic display;
one or more processors; and
one or more computer-readable media storing:
a datastore that includes a plurality of schedules of sequential instructions, wherein individual schedules of sequential instructions cause the display controller to perform a particular animation for transitioning between pages; and
computer-executable instructions that, when executed on the one or more processors, cause the one or more processors to perform acts comprising:

receiving a request to navigate from a first page of an electronic book to a second page of the electronic book;
determining an animation for transitioning from the first page to the second page;
determining, from the datastore, a schedule of sequential instructions corresponding to the animation; and
transitioning from the first page of the electronic book to the second page of the electronic book via the animation by filling the framebuffer with pixel values corresponding to the second page and providing the schedule of sequential instructions to the display controller, each sequential instruction of the schedule of sequential instructions identifying a respective group of one or more pixels to update with corresponding pixel values from the framebuffer.

2. An electronic book reader device as recited in claim **1**, wherein the display controller is configured to update the content rendered on the electronic paper display on a per-pixel level.

3. An electronic book reader device as recited in claim **1**, wherein the display controller is configured to update the content rendered on the electronic paper display in blocks comprising multiple pixels.

4. An electronic book reader device as recited in claim **1**, wherein the sequential instructions collectively cause the display controller to update each of the plurality of pixels of the electronic paper display with content from the second page.

5. An electronic book reader device as recited in claim **1**, wherein:
the electronic paper display is configured to render at least white, black, and gray pixels; and
each of the sequential instructions instructs the display controller to first change a value of each respective pixel of the respective group of one or more pixels to black or white and, thereafter, to a value corresponding to content of the second page at the respective pixel.

6. An electronic book reader device as recited in claim **1**, wherein each of the sequential instructions instructs the display controller to change a value of each respective pixel of the respective group of one or more pixels to a value corresponding to content of the second page at the respective pixel.

7. An electronic book reader device as recited in claim **1**, wherein each of the sequential instructions identifies a respective group of pixels that does not overlap with any other pixel identified by any other of the sequential instructions.

8. An electronic book reader device as recited in claim **1**, wherein the transitioning includes one or more of:
a page transition that updates pixels of the electronic paper display from left to right, right to left, top to bottom, bottom to top, or corner to corner;
a page transition that updates pixels of the electronic paper display radially outwards from one or more origin pixels; or
a page transition that updates pixels of the electronic paper display beginning at a corner of the electronic paper display and arcing around to a remainder of the electronic paper display.

9. An electronic device comprising:
an electronic paper display configured to render content;
a touch sensor configured to accept touch inputs from a user;